

## WHAT IS CLAIMED IS:

1. A method for reducing emissions of common rail fuel system compression ignition engine by running said engine on a fuel comprising a diesel fuel characterized by having a density of about 0.83 g/cc or less and a viscosity of about 3 cSt or less at 40°C.

2. The method of claim 1 wherein the diesel fuel is characterized by having a density of about 0.825 g/cc or less.

3. The method of claim 1 wherein the diesel fuel is characterized by having a density of about 0.820 g/cc or less.

4. The method of claim 1 wherein the diesel fuel is characterized by having a viscosity of about 2.6 cSt or less at 40°C.

5. The method of claim 2 wherein the diesel fuel is characterized by having a viscosity of about 2.6 cSt or less at 40°C.

6. The method of claim 3 wherein the diesel fuel is characterized by having a viscosity of about 2.6 cSt or less at 40°C.

7. The method of claim 1 wherein the diesel fuel is characterized by having a viscosity of about 2.1 cSt or less at 40°C.

8. The method of claim 2 wherein the diesel fuel is characterized by having a viscosity of about 2.1 cSt or less at 40°C.

10. The method of claim 1, 2, 3, 4, 5, 6, 7, 8 or 9 wherein the diesel fuel is characterized by having a sulfur content of about 0.05 wt% or less.

12. The method of claim 10 wherein the diesel fuel is characterized by having a sulfur content of about 0.03 wt% or less.

Parameter	Value	Parameter	Value	Parameter	Value	Parameter	Value	Parameter	Value
$\alpha$	0.001	$\beta$	0.001	$\gamma$	0.001	$\delta$	0.001	$\epsilon$	0.001
$\zeta$	0.001	$\eta$	0.001	$\theta$	0.001	$\iota$	0.001	$\kappa$	0.001
$\lambda$	0.001	$\mu$	0.001	$\nu$	0.001	$\xi$	0.001	$\omicron$	0.001
$\pi$	0.001	$\rho$	0.001	$\sigma$	0.001	$\tau$	0.001	$\upsilon$	0.001
$\phi$	0.001	$\chi$	0.001	$\psi$	0.001	$\omega$	0.001	$\varphi$	0.001
$\kappa$	0.001	$\lambda$	0.001	$\mu$	0.001	$\nu$	0.001	$\xi$	0.001
$\eta$	0.001	$\theta$	0.001	$\iota$	0.001	$\kappa$	0.001	$\lambda$	0.001
$\mu$	0.001	$\nu$	0.001	$\xi$	0.001	$\omicron$	0.001	$\pi$	0.001
$\rho$	0.001	$\sigma$	0.001	$\tau$	0.001	$\upsilon$	0.001	$\phi$	0.001
$\chi$	0.001	$\psi$	0.001	$\omega$	0.001	$\varphi$	0.001	$\kappa$	0.001
$\lambda$	0.001	$\mu$	0.001	$\nu$	0.001	$\xi$	0.001	$\eta$	0.001
$\theta$	0.001	$\iota$	0.001	$\kappa$	0.001	$\lambda$	0.001	$\mu$	0.001
$\nu$	0.001	$\xi$	0.001	$\omicron$	0.001	$\pi$	0.001	$\rho$	0.001
$\sigma$	0.001	$\tau$	0.001	$\upsilon$	0.001	$\phi$	0.001	$\chi$	0.001
$\psi$	0.001	$\omega$	0.001	$\varphi$	0.001	$\kappa$	0.001	$\lambda$	0.001
$\mu$	0.001	$\nu$	0.001	$\xi$	0.001	$\eta$	0.001	$\theta$	0.001
$\iota$	0.001	$\kappa$	0.001	$\lambda$	0.001	$\mu$	0.001	$\nu$	0.001
$\xi$	0.001	$\omicron$	0.001	$\pi$	0.001	$\rho$	0.001	$\sigma$	0.001
$\tau$	0.001	$\upsilon$	0.001	$\phi$	0.001	$\chi$	0.001	$\psi$	0.001
$\omega$	0.001	$\varphi$	0.001	$\kappa$	0.001	$\lambda$	0.001	$\mu$	0.001
$\nu$	0.001	$\xi$	0.001	$\eta$	0.001	$\theta$	0.001	$\iota$	0.001
$\kappa$	0.001	$\lambda$	0.001	$\mu$	0.001	$\nu$	0.001	$\xi$	0.001
$\eta$	0.001	$\theta$	0.001	$\iota$	0.001	$\kappa$	0.001	$\lambda$	0.001
$\mu$	0.001	$\nu$	0.001	$\xi$	0.001	$\omicron$	0.001	$\pi$	0.001
$\rho$	0.001	$\sigma$	0.001	$\tau$	0.001	$\upsilon$	0.001	$\phi$	0.001
$\chi$	0.001	$\psi$	0.001	$\omega$	0.001	$\varphi$	0.001	$\kappa$	0.001
$\lambda$	0.001	$\mu$	0.001	$\nu$	0.001	$\xi$	0.001	$\eta$	0.001
$\theta$	0.001	$\iota$	0.001	$\kappa$	0.001	$\lambda$	0.001	$\mu$	0.001
$\nu$	0.001	$\xi$	0.001	$\omicron$	0.001	$\pi$	0.001	$\rho$	0.001
$\sigma$	0.001	$\tau$	0.001	$\upsilon$	0.001	$\phi$	0.001	$\chi$	0.001
$\psi$	0.001	$\omega$	0.001	$\varphi$	0.001	$\kappa$	0.001	$\lambda$	0.001
$\mu$	0.001	$\nu$	0.001	$\xi$	0.001	$\eta$	0.001	$\theta$	0.001
$\iota$	0.001	$\kappa$	0.001	$\lambda$	0.001	$\mu$	0.001	$\nu$	0.001
$\xi$	0.001	$\omicron$	0.001	$\pi$	0.001	$\rho$	0.001	$\sigma$	0.00